



352023

SCREENING SITE INSPECTION REPORT

FOR

UNITED RECOVERY

ROCKTON, ILLINOIS

U.S. EPA ID: ILD981098411

SS ID: NONE

TDD: F05-8811-004

PAN: FIL0445SA

JULY 11, 1990



ecology and environment, inc.

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1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the United Recovery (UR) site under contract number 68-01-7347.

The site was initially discovered through a complaint filed by the Rockton, Illinois, Fire Department on May 7, 1980, alleging that waste oil was leaking from a building at the UR site. The site was inspected by the Illinois Environmental Protection Agency (IEPA) in response to this complaint.

The site was further evaluated in the form of a preliminary assessment (PA) that was submitted to U.S. EPA. The PA was prepared by Kenneth L. Page of IEPA on October 22, 1985.

FIT prepared an SSI work plan for the UR site under technical directive document (TDD) F05-8703-409, issued on March 23, 1987. The SSI work plan was approved by U.S. EPA on October 19, 1988. The SSI of the UR site was conducted on June 19 and 20, 1989, under TDD F05-8811-004, issued on November 10, 1988.

The FIT SSI included an interview with a site representative, a reconnaissance inspection of the site, and the collection of seven soil samples and five residential well samples.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2. SITE BACKGROUND

2.1 INTRODUCTION

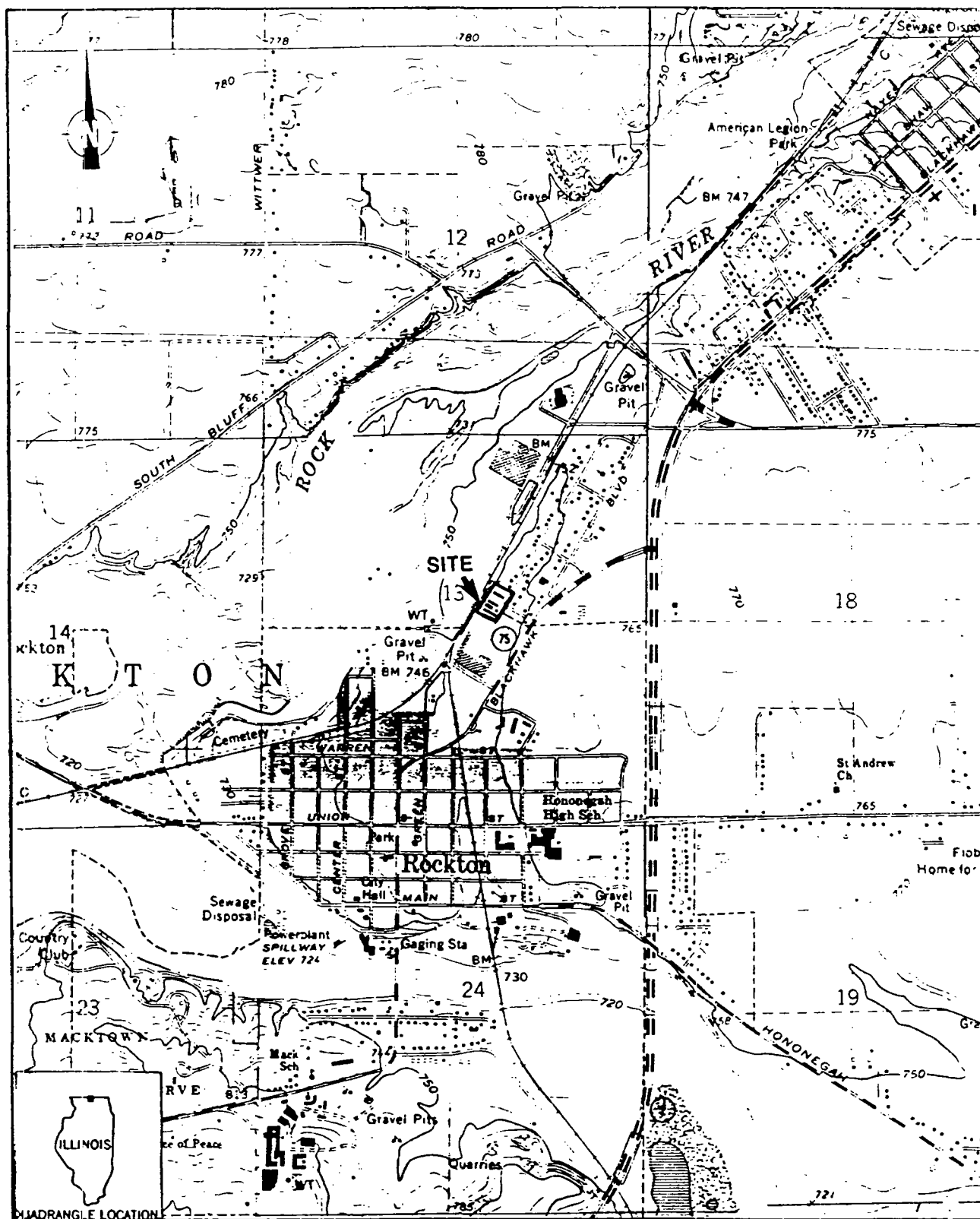
This section includes information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

2.2 SITE DESCRIPTION

The site property is no longer known as United Recovery. The property was called United Recovery for approximately one year (Hanson 1984). The four on-site buildings that formerly made up United Recovery are currently occupied by four independent businesses. The UR site is located on an approximately 4-acre parcel of land on the north side of Rockton, Illinois, in Winnebago County (SW1/4NE1/4 sec. 13, T.46N., R.1E.). The site is located at the southwest corner of Watts Avenue and Dingman Road (see Figure 2-1). A 4-mile radius map of the UR site is provided in Appendix A.

2.3 SITE HISTORY

According to site owner/representative Laverne Collins, operations at the site property, originally owned by Broaster Company (Broaster), were begun by five employees of Taylor Freezer Company, located adjacent to the UR site. Broaster began operations sometime in the 1950s. Activities at the site property and the duration of Broaster's ownership of the property are unknown (Collins 1989).



SOURCE: Ecology and Environment, Inc. 1990; BASE MAP: USGS, South Beloit, IL Quadrangle, 7.5 Minute Series, 1971, photorevised 1976.

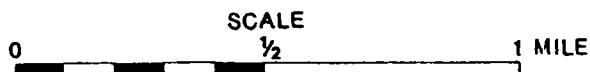


FIGURE 2-1 SITE LOCATION

Alco Standard Company, of Pennsylvania, bought the property from Broaster on an unknown date (Collins 1989). Activities at the site and the duration Alco Standard's ownership of the property are unknown.

Collins bought the property from Alco Standard for investment purposes and subsequently sold it to Gil Semans, who formed and began operating a company called Soterion, Inc. (Soterion), at the site. Although the site is listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) as United Recovery, the majority of the file information, both state and federal, that FIT gathered involved Soterion.

Soterion operations included the reclamation of fine, high speed steel cutting sludge that was contaminated with oil. The sludge was obtained from Triumph Twist Company of Rhinelander, Wisconsin. Throughout the file information gathered by FIT, this sludge is referred to as "wheel."

Soterion's process involved the washing and drying of this wheel until a clean, dry, high speed steel powder was produced for resale to the steel industry. The removed oil was then emulsified, purged of its high phosphorous content, and stored until it could be resold. Two 6,000-gallon and one 8,000-gallon aboveground tanks were used to store the oil. According to file information, Semans stated that the water used in the washing process was treated before being discharged to a septic tank on-site. The treatment consisted of pH adjustments and the removal of settleables and floatables (Conner 1980).

According to Collins, during Soterion's operations on-site, a tanker spilled approximately 500 gallons of oil at the site. Most of the spilled oil settled on property owned by Taylor Freezer, to the southwest of the site. Soterion contracted with a company to excavate the oil contaminated soil and replace it with fresh topsoil. Taylor Freezer subsequently built an addition to its plant over the spill area (Collins 1989). Collins did not have more specific information concerning the alleged oil spill. Site files did not include any information concerning the spill.

In June 1983, Semans sold Soterion to Ernest Brown, who had served as the company's vice president. Under Brown's ownership, the company was renamed United Recovery. Brown intended to process only the waste

that remained after Semans's sale of the site to Brown. This remaining waste was processed by May 1984. United Recovery ceased operations at the site at this time (Hanson 1984).

Collins purchased the UR site from Brown some time after United Recovery shut down, and is currently the owner of the site (Collins 1989).

Currently, Collins leases the four on-site buildings to several tenants. The building located in the southwest corner of the site is occupied by a level-making shop that has been in operation approximately 4 years. The building to the northeast of the level-making shop is a wood-pallet repair shop. A smaller machine shop is located adjacent to this building on its southeast side. During the SSI, FIT observed a sign reading "Volga Industries" on the machine shop building.

A welding shop is located to the northeast of the pallet-repair shop. Collins indicated that this building is not currently occupied (Collins 1982). Approximately 35 feet to the northeast of the welding shop, across Dingman Road, is a building owned by Ray St. John of Beloit, Wisconsin. St. John uses the building to store antique cars. Collins stated that he sold this building to St. John in 1988 (Collins 1989).

This site, under the ownership of both Soterion and United Recovery, has been extensively investigated by IEPA as a result of state permit noncompliance and allegations by nearby residents of a thick, smelly smoke emission from the site that causes headaches, rashes, lightheadedness, and sinus problems. These allegations were published in the October 18, 1983, issue of the Rockford Register Star newspaper, in an article written by Michelle Meyer. File information indicates that Soterion was issued an air pollution permit (number 201809 AAH) for the site on August 8, 1981, and had filed a permit application (number 81070077) for a metal powder dryer that expired on July 31, 1986 (Holzer 1981).

Brown voluntarily closed the United Recovery facility following a meeting with six representatives of IEPA on October 14, 1983. It was agreed that the facility would remain closed until compliance with all state rules and regulations could be demonstrated. File information did not indicate the length of time that the facility was shut down.

The site file included a letter from Robert Wengrow, IEPA, Rockford Region Manager, to Brown, dated November 9, 1983. The letter stated that, as a result of Brown's apparent noncompliance with the requirements of the Illinois Environmental Protection Act and the Rules and Regulations of the Illinois Pollution Control Board, the case was being turned over to the Attorney General's office for the filing of a formal complaint (Wengrow 1983). IEPA, however, never followed through with any court action against Brown (Godare 1988).

Collins stated that Taylor Freezer, adjacent to the UR site to the southwest, is presently interested in purchasing the UR site for expansion (Collins 1989).

3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

3.1 INTRODUCTION

This section outlines procedures and observations of the UR site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted in accordance with the U.S. EPA-approved work plan, with the following exceptions. FIT collected six on-site subsurface grab soil samples and one potential background sample, rather than the proposed five subsurface composite soil samples and one background sample. FIT collected the five residential well samples proposed in the work plan, but only one on-site well sample was collected because only one of the two on-site wells was operational. A field blank and duplicate sample were also collected.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the UR site is provided in Appendix B.

3.2 SITE REPRESENTATIVE INTERVIEW

Timothy S. Mayers, FIT team leader, conducted an interview with Laverne Collins, site owner, on June 19, 1989, at 10:30 a.m. The interview was conducted in an office located in the southwest building (level-making shop) on-site. The interview was conducted to gather information that would aid FIT in conducting SSI activities. John Erve, FIT team member, accompanied Mayers at the interview.

3.3 RECONNAISSANCE INSPECTION

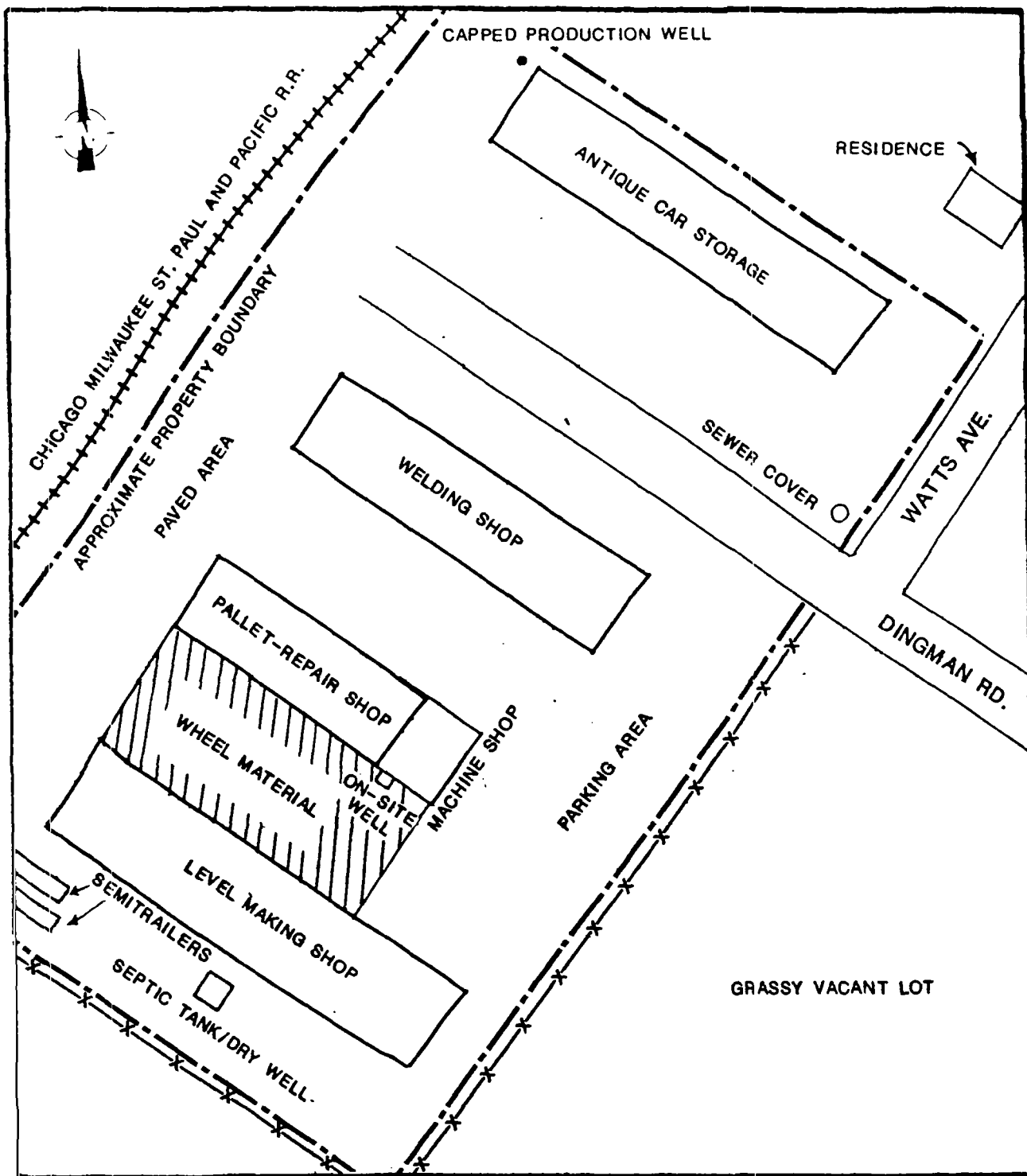
Following the site representative interview, FIT conducted a reconnaissance inspection of the UR site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined exact sampling locations during the reconnaissance inspection.

The reconnaissance inspection was begun on June 19, 1989, at 1:20 p.m. FIT was not accompanied by Collins during the reconnaissance inspection.

Reconnaissance Inspection Observations. The UR site is located in the north portion of Rockton, Illinois, in a predominantly residential area. The nearest private home is located approximately 25 feet to the northeast of the site. Taylor Freezer, a manufacturer of freezer equipment for the restaurant industry, is located adjacent to the site on the southwest side. A Chicago Milwaukee St. Paul and Pacific Railroad line borders the site to the northwest. A vacant lot is located adjacent to the site on the southeast side (see Figure 3-1 for locations of site features).

The four on-site buildings are oriented in a northwest to southeast direction but trend, as a group, northeast to southwest. Dingham Road runs in a northwest direction across the site, between the welding shop and the antique car storage building. The buildings, made of corrugated steel and semicircular in shape, are popularly known as Quonset huts.

A paved parking area is located in front of the three buildings to the southwest of Dingman Road. Fencing is present only along the southwest and southeast sides of the site. During FIT's reconnaissance inspection, a capped well was observed at the northeast corner of the antique car building (northeast of Dingman Road). Collins indicated that the well had been a production well during Soterion's operation of the site. To the south of the car storage building, near the intersection of Watts Avenue and Dingham Road, FIT observed a storm sewer cover.



SOURCE: Ecology and Environment, Inc. 1990.

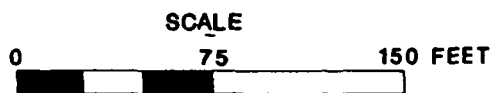


FIGURE 3-1 SITE FEATURES

To the southwest of the car storage building, across Dingman Road, FIT observed the welding shop, which Collins indicated was not occupied. During SSI activities, however, FIT noticed that the rear entrance of the building was open.

The wood-pallet repair shop was located to the southwest of the unoccupied building. FIT observed pallets stacked behind the shop. Adjacent to this shop to the southeast was a smaller building made of concrete cinder blocks that Collins indicated was occupied by a machine shop. Adjacent to this machine shop on the southwest side was the on-site well that FIT sampled on June 20, 1989.

Between the pallet repair shop and the southwesternmost building, FIT observed an area of brown material with a sandy texture. This material, which Collins indicated was the "wheel" used in Soterion and United Recovery processes, was not covered or contained. Collins stated that he had installed a septic tank in this area. According to Collins, this tank was no longer used. The tank was covered by wheel material and was not visible to FIT during the reconnaissance. The level-making shop was located to the southwest of the pallet repair shop. In the back of the building FIT observed four full 5-gallon cans labeled as flammable liquid. The cans had been placed in a wooden container. It is unknown which business uses the flammable material or for what purpose. On the southwest side of the level-making shop an area of tall grass was observed. The area was approximately 30 feet wide and ran the length of the building. FIT observed two semitrailers, as well as an active septic tank/dry well in this area. The contents of the trailers, if any, are unknown. FIT also observed an area of metal debris and stained soil in the western corner of the site. Photographs of the UR site are provided in Appendix C.

3.4 SAMPLING PROCEDURES

Soil samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds or U.S. EPA Target Analyte List (TAL) analytes were present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

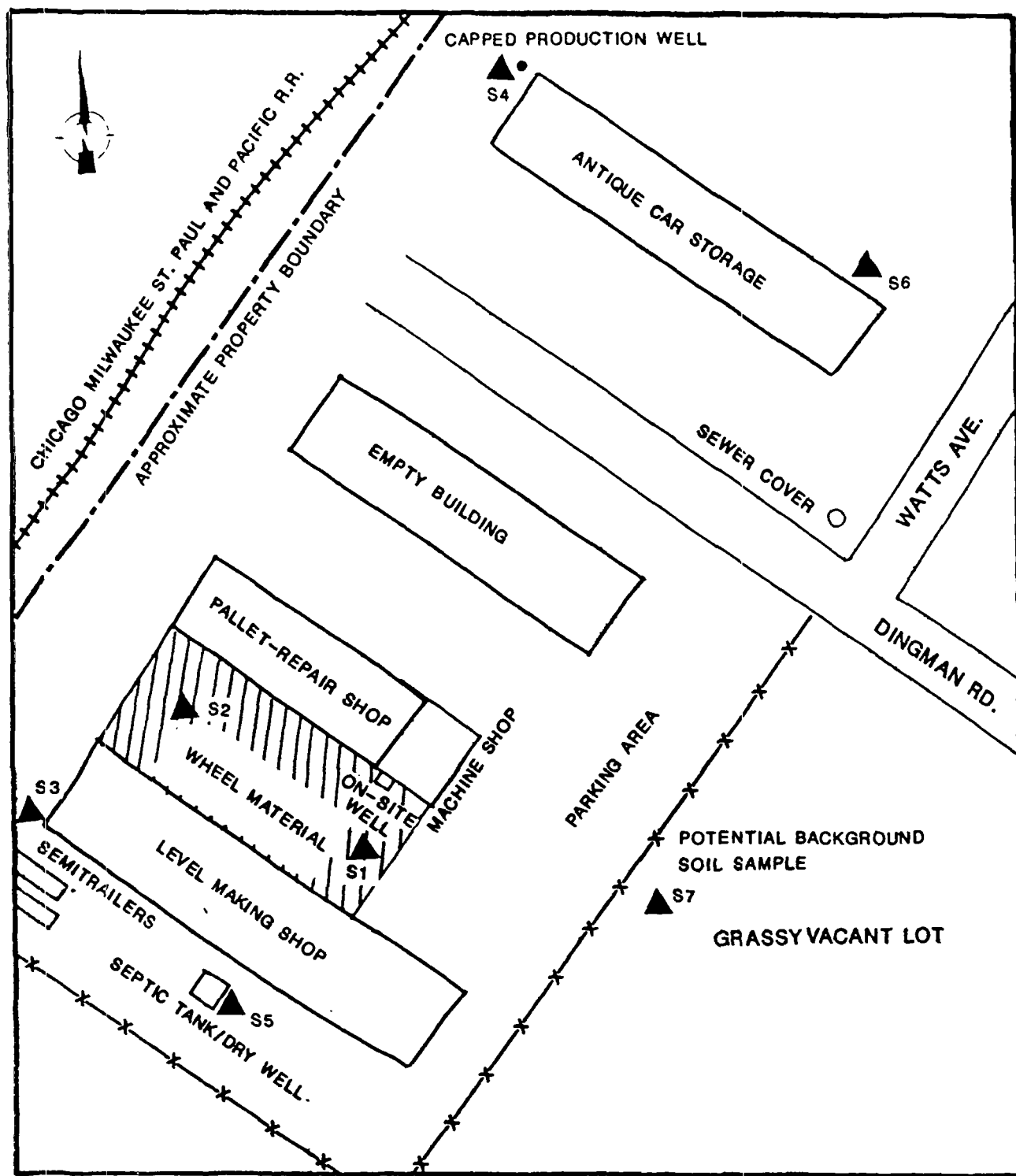
On June 19, 1989, FIT collected six subsurface soil samples from suspected areas of contamination at the site and one subsurface potential background soil sample. All subsurface soil samples were collected at an approximate depth of 7 inches. On June 20, 1989, one on-site drinking well sample and four residential well samples were collected. Portions of samples collected by FIT were offered to site representatives, but the offer was declined.

Soil Sampling Procedures. Subsurface soil sample S1 was collected between the two buildings in the southwest portion of the site from the area of wheel material (see Figure 3-2 for soil sampling locations). Subsurface soil sample S2 was also collected in the wheel material area, approximately 50 feet northwest of S1. Soil samples S1 and S2 were collected to determine the TCL compound and/or TAL analyte content of the wheel.

Subsurface soil sample S3 was collected from an area of stained soil near the southwest corner of the level-making shop. Two semi-trailers and some metal debris were also present in the area. Subsurface soil sample S4 was collected near the northeast corner of the antique car storage building approximately 6 feet northeast of the inactive production well.

Subsurface soil sample S5 was collected approximately 100 feet southeast of S3, in a depression that Collins stated was an active septic tank. Subsurface soil sample S6 was collected near the northeast corner of the car storage building near the site boundary, in a depression that appeared to have been created by a backhoe.

In addition to the six on-site soil samples, FIT collected one off-site potential background soil sample to determine the representative chemical content of the soil in the area surrounding site. This sample, designated as S7, was collected at an approximate depth of 7 inches from the vacant, grassy lot adjacent to the southeast side of the URR site. All soil samples were grab samples collected using garden trowels. The garden trowels were used to dig to an approximate depth of 7 inches. Sample material was then transferred to sample jars using the trowels (E & E 1987).



SOURCE Ecology and Environment, Inc. 1990.

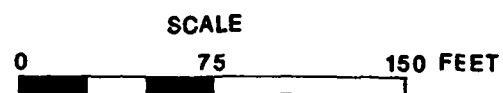


FIGURE 3-2 SOIL SAMPLING LOCATIONS

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The procedures included the scrubbing of all equipment (e.g., trowels) with a solution of Alconox detergent and distilled water, and triple-rinsing the equipment with distilled water before the collection of each sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.

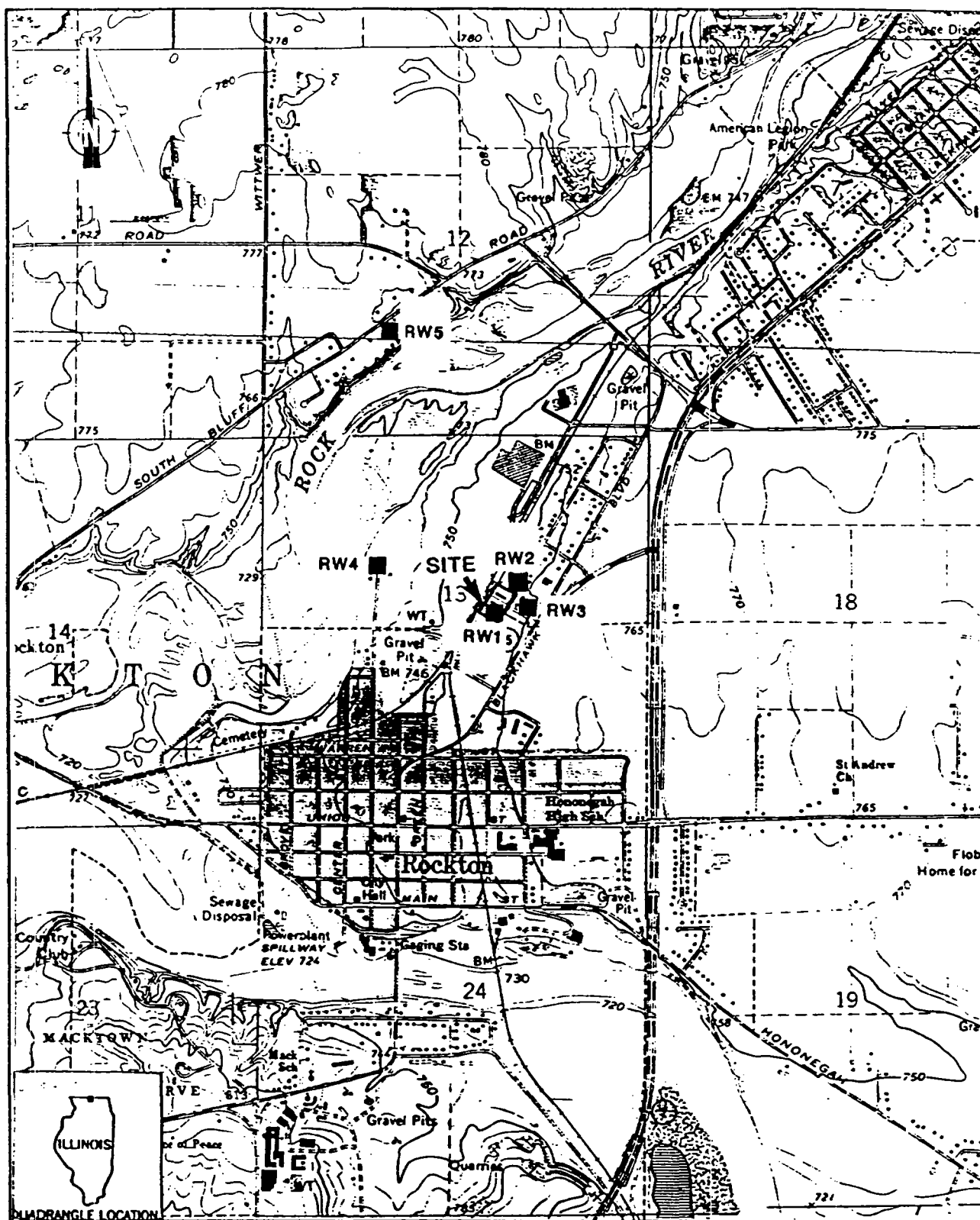
As directed by U.S. EPA, all soil samples were analyzed under the U.S. EPA Contract Laboratory Program (CLP) for TCL compounds by Environmental Monitoring Services, of Camarillo, California, and for TAL analytes by Columbia Analytical Services of Longview, Washington.

Residential Well Sampling Procedures. Residential well samples (indicated as RW1 through RW5) were collected to determine whether TCL compounds and/or TAL analytes had migrated from the site via groundwater. Groundwater sampling locations were selected based on their proximity to the site and the availability of private wells for sampling.

Sample RW1 was collected from the on-site well (see Figure 3-3 for residential well sampling locations). Collins indicated that this on-site well was used for drinking water. Residential well samples RW2 and RW3 were collected from residences located approximately 25 feet northeast and 150 feet east of the site, respectively. Residential well sample RW4 was collected from a residence located approximately 1/4 mile west of the site. Sample RW5 was collected from a residence located approximately 3/4 miles north-northwest of the site, across the Rock River.

A distilled water field blank and a duplicate residential well sample were also collected in accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements. The duplicate sample was collected at sampling location RW1 (on-site) (see Table 3-1 for addresses of residential well sampling locations).

All residential well samples were obtained from outlets that bypassed water treatment systems and storage tanks. The water was allowed to discharge from the outlets for 15 minutes before samples were collected to insure that the sample sources had been purged of standing



SOURCE: Ecology and Environment, Inc. 1990; BASE MAP: USGS, South Beloit, IL Quadrangle, 7.5 Minute Series, 1971, photorevised 1976.

SCALE
0 1/2 1 MILE

FIGURE 3-3 RESIDENTIAL WELL SAMPLING LOCATIONS

Table 3-1

ADDRESSES OF RESIDENTIAL WELL SAMPLING LOCATIONS

Sample	Address
RW1 and Duplicate	800 Watts Avenue Rockton, IL 61073
RW2	910 Watts Avenue Rockton, IL 61073
RW3	409 Dingman Road Rockton, IL 61073
RW4	900 North Prairie Rockton, IL 61072
RW5	Route #1, Box 18 South Beloit, IL 61080

Source: Ecology and Environment, Inc. 1990.

water (E & E 1987). All residential well samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, residential well samples were analyzed under the U.S. EPA CLP for TCL compounds by Gulf South Environmental of New Orleans, Louisiana, and U.S. EPA Central Regional Laboratory (CRL) of Chicago, Illinois. Residential well samples were analyzed for TAL analytes by CRL.

4. ANALYTICAL RESULTS

4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil and residential well samples for TCL compounds and TAL analytes.

4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Soil Sampling Results. Chemical analysis of FIT-collected soil samples revealed substances from the following groups of TCL compounds and TAL analytes: halogenated hydrocarbons, aromatics, phthalates, heavy metals, metals, common laboratory artifacts, and common soil constituents (see Table 4-1 for complete chemical analysis results of FIT-collected soil samples).

Residential Well Sampling Results. Chemical analysis of FIT-collected residential well samples revealed substances from the following groups of TCL compounds and TAL analytes: halogenated hydrocarbons, phenol, heavy metals, common laboratory artifacts, and common groundwater constituents (see Table 4-2 for complete chemical analysis results of FIT-collected residential well samples).

U.S. EPA CLP quantitation/detection limits used in the analysis of FIT-collected soil and residential well samples are provided in Appendix D.

Table 4-1
RESULTS OF CHEMICAL ANALYSIS OF
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	Sample Number						
	S1	S2	S3	S4	S5	S6	S7
Date	6/19/89	6/19/89	6/19/89	6/19/89	6/19/89	6/19/89	6/19/89
Time	1400	1400	1400	1430	1440	1510	1520
CLP Organic Traffic Report Number	EER76	EER77	EER78	EER79	EER80	EER81	EER82
CLP Inorganic Traffic Report Number	MEFE37	MEFE38	MEFE39	MEFE40	MEFE41	MEFE42	MEFE43
<u>Compound Detected</u> (values in $\mu\text{g/kg}$)							
<u>Volatile Organics</u>							
methylene chloride	13JB	--	--	6	--	--	6
acetone	--	--	--	42J	--	--	--
carbon disulfide	--	110J	--	--	--	--	--
benzene	--	16J	--	--	--	--	--
toluene	--	43J	--	--	--	--	--
ethylbenzene	--	9J	--	--	--	--	--
xylenes (total)	--	27J	--	--	--	--	--
<u>Semivolatile Organics</u>							
phenanthrene	--	--	--	--	--	--	150J
di-n-butylphthalate	--	--	5,500J	--	--	--	81J
fluoranthene	--	--	--	--	--	--	310J
pyrene	--	--	--	--	--	--	270J
benzo[a]anthracene	--	--	--	--	--	--	100J
chrysene	--	--	--	--	--	--	170J
bis(2-ethylhexyl)phthalate	4,100J	3,400J	8,700J	--	--	--	95J
benzo[b]fluoranthene	--	--	--	--	--	--	270J
benzo[a]pyrene	--	--	--	--	--	--	140J

Table 4-1 (Cont.)

Sample Collection Information and Parameters	Sample Number						
	S1	S2	S3	S4	S5	S6	S7
<u>Analyte Detected</u> (values in mg/kg)							
aluminum	2,010	4,720	1,530	6,380	8,880	7,460	7,170
antimony	--	8.3B	7.8B	--	--	--	--
arsenic	17JN*	14.1JN*	3.8JN*	2.7JN*	4.0JN*	19.4JN*	3.1JN*
barium	242	155	50.1	105	97.1	102	123
beryllium	1.3B	0.79B	0.72B	--	--	--	--
cadmium	10	8.0	30	--	--	--	0.55JB
calcium	2,970	5,430	116,000	3,520	13,000	2,750	4,380
chromium	17,100	9,920	1,030	20.6	67.7	12.4	15.3
cobalt	1,570	893	98.1	5.6B	12B	5.2B	6.0B
copper	398	236	122	7.9	16.9	7.7	16
iron	398,000	237,000	30,200	9,580	14,000	10,400	10,400
lead	26.2	14.1	44.1	15.7	15.8	11.7	27.9
magnesium	1,560	3,300	70,600	2,150	7,760	1,900	2,000
manganese	1,370	999	298	566	465	605	671
nickel	692	420	57.4	11.2	14.7	7.9B	11.5
potassium	--	393B	--	357JB	629B	539B	1,110B
sodium	327JB	432B	194JB	134JB	140JB	110JB	112JB
thallium	1.2B	1.1B	0.67B	0.34B	0.52B	0.48B	--
vanadium	5,850	3,420	336	18.8	45.3	22.5	22
zinc	76.1	91.4	275	39.6	51.4	42.6	55.3
cyanide	3.0	--	--	--	--	--	--

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIERS	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.
B	This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1990.

Table 4-2
RESULTS OF CHEMICAL ANALYSIS OF
PIT-COLLECTED RESIDENTIAL WELL SAMPLES

Sample Collection Information and Parameters	Sample Number						
	RW1	Duplicate	RW2	RW3	RW4	RW5	Blank
Date	6/20/89	6/20/89	6/20/89	6/20/89	6/20/89	6/20/89	6/20/89
Time	1000	1000	1045	1115	1200	1335	1070
CLP Organic Traffic Report Number	EER83	EER84	EER85	EER86	EER87	EER88	EER89
CRL Inorganic Log Number	89FM22S01	89FM22D01	89FM22S02	89FM22S03	89FM22S04	89FM22S05	89FM11R15
Temperature (°C)	7	7	7	9	9	9	10
Specific Conductivity (μmhos/cm)	240	240	375	280	395	240	2
pH	6.64	6.64	7.22	7.32	6.73	7.57	6.91
<u>Compound Detected</u> (values in μg/L)							
<u>Volatile Organics</u>							
1,1-dichloroethene	--	--	1J	--	--	--	--
chloroform	--	--	--	--	--	--	2J
1,1,1-trichloroethane	--	--	9J	--	--	--	--
bromodichloromethane	--	--	--	--	--	--	1J
tetrachloroethene	--	--	90J	--	--	--	--
toluene	--	--	--	--	--	--	1J
<u>Semivolatile Organics</u>							
phenol	5	6	1J	2	2	--	3
bis(2-ethylhexyl)phthalate	19B	--	--	-	--	--	--
<u>Analyte Detected</u> (values in μg/L)							
arsenic	--	--	--	--	3	--	--
barium	16.9	17	13.4	11.5	42.5	14.9	--
cadmium	--	--	--	--	--	0.3	--
calcium	59,100	59,500	91,200	74,300	103,000	62,500	--
copper	12	11	8.6	7.5	9.0	--	--
iron	--	--	136	--	5,360	--	--
magnesium	32,700	33,000	45,000	34,500	35,300	28,600	--

Table 4-2 (Cont.)

Sample Collection Information and Parameters	RW1	Duplicate	RW2	Sample Number		RW4	RW5	Blank
				RW3				
manganese	--	--	--	--		--	631	--
sodium	2,200	2,100	10,300	8,600		18,400	3,500	--
zinc	--	--	60.8	--		--	149	--
-- Not detected.								

COMPOUND QUALIFIERS

DEFINITION

INTERPRETATION

J

Indicates an estimated value.

Compound value may be semiquantitative.

B

This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Compound value may be semiquantitative if it is <5x the blank concentration (<10x the blank concentrations for common laboratory artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).

Source: Ecology and Environment, Inc. 1990.

5. DISCUSSION OF MIGRATION PATHWAYS

5.1 INTRODUCTION

This section contains a discussion of data and information that apply to potential migration pathways and targets of TCL compounds and/or TAL analytes that may be attributable to the UR site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

5.2 GROUNDWATER

TCL compounds and TAL analytes, including 1,1-dichloroethane at 15 µg/L, 1,1,1-trichloroethane at 95 µg/L, tetrachloroethene at 90J µ/L, phenol at 6 µ/L, arsenic at 3 µg/L, manganese at 631 µg/L, and zinc at 149 µg/L, have been detected in residential well samples collected by FIT (see Table 4-2 for the definition and interpretation of J qualifier). These substances are not attributable to the UR site because corresponding TCL compounds and TAL analytes were not detected in on-site soil samples.

A potential exists for TCL compounds and TAL analytes to migrate from the site to groundwater in the vicinity of the site because TCL compounds and TAL analytes, including benzene at 16J µg/kg, ethylbenzene at 9J µg/kg, xylenes at 27J µg/kg, arsenic at 19.4JN* mg/kg, chromium at 17,100 mg/kg, and cyanide at 3.0 mg/kg have been detected in on-site soil samples (see Table 4-1 for definitions and interpretations of qualifiers).

The potential for TCL compounds and TAL analytes detected in on-site soil samples to migrate to area groundwater is based on the following geological, topographical, and hydrological information.

A review of area well logs and geological literature of the area surrounding the UR site indicates that groundwater is derived from three separate geologic units (well logs of the UR site area are provided in Appendix E). These units, in descending order, are the Pleistocene glacial drift, the Ordovician sandstones, and the Cambrian sandstones. Groundwater from these three units provides 100% of the water for public, industrial, and domestic use in Winnebago County (Berg et al. 1984).

The glacial deposits overlie Ordovician sandstones, dolomites, and shales. The preglacial Rock Bedrock Valley, formed by the Rock River, contains as much as 250 feet of drift. The drift in the site area is composed mainly of sandy tills. Overlying these sandy tills is a thin (less than 5 feet thick) veneer of eolian material. Information obtained from well logs of the area surrounding the site indicates that domestic wells draw from sand located within the drift at depths ranging from 30 to 120 feet.

Underlying the glacial drift are Ordovician sandstones, dolomites, and shales. The St. Peter sandstone, Galena/Platteville dolomites, and Maquoketa shale are included in the sequence. Maquoketa shale overlies the efficient water-bearing St. Peter sandstone and Galena/Platteville dolomites, acting as a hydrogeologic barrier between the unconsolidated material and the bedrock (Berg et al. 1984).

Underlying the Ordovician water-bearing units are Cambrian sandstones, dolomites, and shales. Although water is drawn from both the Ironston-Galesville sandstone and Eau Claire dolomite units in Winnebago County, area well logs and geological literature indicate that these units are not used as water sources within the 3-mile radius of the site.

In the area surrounding the site the aquifer of concern (AOC) is located in the glacial drift at a depth of 30 feet. Water is drawn from the AOC at depths ranging from 30 to 120 feet. The potential groundwater target population includes appropriately 18,700 persons served by

wells drawing from the AOC within a 3-mile radius of the site. Approximately 14,000 persons in South Beloit, Illinois, and Beloit, Wisconsin, are served by seven municipal wells ranging in depth from 111 feet to 1,225 feet (Saladino 1988). At least one of these seven municipal wells is located within a 3-mile radius of the site, and water from these wells is blended prior to distribution. The potential groundwater target population also includes approximately 2,480 persons within Rockton city limits who are served by water from the one of Rockford's two municipal wells that is finished in the glacial drift at a depth of approximately 120 feet (Kirby 1988). The remaining 2,220 persons included in the potential target population draw from private residential wells within a 3-mile radius of the site. This figure was calculated by multiplying the number of homes within a 3-mile radius of the site (United States Geological Survey [USGS] 1962, 1970, 1971) by the Winnebago County Census figure of 2.76 persons per household (U.S. Bureau of the Census 1982).

5.3 SURFACE WATER

No surface water samples were collected during the SSI of the UR site. The potential for surface water in the area of the site to be affected by contaminants detected in on-site soil samples appears to be low, based on the following information:

- The concentrations of TCL compounds and TAL analytes detected were at low levels in soils at the site; and
- The nearest surface water body is the Rock River, located approximately 1/2 mile northwest of the site.

5.4 AIR

A release of TCL compounds or TAL analytes to the air was not documented during the SSI of the UR site. During the reconnaissance inspection, FIT site-entry instruments did not detect levels above background concentrations at the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

Although all on-site soil samples were collected at least 6 inches below the ground surface, a potential exists for windblown particulates to carry TCL compounds and/or TAL analytes from the UR site. This potential increases because of the wheel that FIT observed to be present on-site. The wheel, which was not covered or contained, is a fine-grained material susceptible to windblown forces.

A potential target population of approximately 30,000 was determined to reside within a 4-mile radius of the site. This target population was calculated by multiplying the number of homes within a 4-mile radius (USGS 1962, 1970, 1971) by the Winnebago County 1980 Census figure of 2.76 persons per household (U.S. Bureau of the Census 1982).

5.5 FIRE AND EXPLOSION

During the SSI of the UR site, FIT observations and FIT site-entry instruments indicated that no apparent potential for fire or explosion existed on-site. The four 5-gallon cans of flammable liquid observed near the level-making shop were enclosed in a wooden container and posed little threat for fire or explosion.

5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT and the site representative interview, no incidents involving direct contact with TCL compounds and/or TAL analytes detected at the UR site have been documented. However, a potential exists for on-site workers and the public to come into direct contact with TCL compounds and TAL analytes detected on-site, based on the following information:

- FIT observed at least eight people on-site;
- The wheel material, located between two of the on-site buildings, is uncovered and uncontained; and
- The site area is not entirely fenced; and private homes are located as near as 25 feet from the site.

A potential direct contact target population of approximately 2,500 people was determined to reside within a 1-mile radius of the UR site. This target population figure was calculated by multiplying the number of homes within a 1-mile radius of the site (USGS 1962, 1970, 1971) by the Winnebago County 1980 Census figure of 2.76 persons per household (U.S. Bureau of the Census 1982).

6. REFERENCES

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- Godare, Bob, January 18, 1988, IEPA, Director, Division of Air Pollution Control, telephone conversation, contacted by Ted Nehrkorn of E & E.
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Kirby, Greg, September 6, 1988, Director of Public Works, Rockton, Illinois, telephone conversation, contacted by Ted Nehrkorn of E & E.

Saladino, Doris, September 1, 1988, Clerk, Wisconsin Power and Light Company, Beloit, Wisconsin, telephone conversation, contacted by Ted Nehrkorn of E & E.

U.S. Bureau of the Census, 1982, 1980 Census of Population, Volume I, Characteristics of the Population, Illinois.

U.S. EPA, February 12, 1988, Office of Solid Waste and Emergency Response, Pre-Remedial Strategy for Implementing SARA, Directive number 9345.2-01, Washington, D.C.

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Wengrow, Bob, November 9, 1983, IEPA, Rockford Region Manager, letter, to Ernest Brown, United Recovery, Rockton, Illinois.

4049:2

APPENDIX A

SITE 4-MILE RADIUS MAP

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX B

U.S. EPA FORM 2070-13



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE ILD 02 SITE NUMBER 981098411

II. SITE NAME AND LOCATION

01 SITE NAME (legal, common, or descriptive name of site) UNITED Recovery
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 800 WATTS AVE.
03 CITY Rockton
04 STATE IL 05 ZIP CODE 61072 06 COUNTY Winnebago
07 COUNTY CODE 201 08 CONG. DIST. 16
09 COORDINATES
LATITUDE 42° 36' 00" 0 LONGITUDE 087° 04' 45" 0
10 TYPE OF OWNERSHIP (check one)
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 6/19/89
MONTH DAY YEAR
02 SITE STATUS
☒ ACTIVE
☐ INACTIVE
03 YEARS OF OPERATION
1950³ 1984
BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR Ecology & Environment, Inc. (Name of firm)
☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER (Specify)

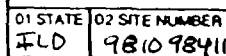
05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Timothy Mayers	Geographer	Ecology & Environment, Inc.	(312) 663-9415
William Perlich	WATER RESOURCE MANAGER	Ecology & Environment, Inc.	(312) 663-9415
Jeff Dickson	Geologist	Ecology & Environment, Inc.	(312) 663-9415
John Erue	Chemist	Ecology & Environment, Inc.	(312) 663-9415
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Laverne Collins	owner	1305 WATTS AVE. Rockton, IL 61072	(815) 387-3640
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (check one)
☒ PERMISSION
☐ WARRANT
18 TIME OF INSPECTION 1320
19 WEATHER CONDITIONS sunny, variable winds, ~80°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.		
Tom Crause	EPA	(202) 782-9848		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Timothy Mayers	U.S. EPA / EIT	Ecology & Environment, Inc.	312/663-9415	12/4/89 MONTH DAY YEAR



<input checked="" type="checkbox"/> A. TOXIC	<input type="checkbox"/> E. SOLUBLE	<input type="checkbox"/> I. HIGHLY VOLATILE
<input checked="" type="checkbox"/> B. CORROSIVE	<input type="checkbox"/> F. INFECTIOUS	<input type="checkbox"/> J. EXPLOSIVE
<input type="checkbox"/> C. RADIOACTIVE	<input checked="" type="checkbox"/> G. FLAMMABLE	<input type="checkbox"/> K. REACTIVE
<input checked="" type="checkbox"/> D. PERSISTENT	<input checked="" type="checkbox"/> H. KNITABLE	<input type="checkbox"/> L. INCOMPATIBLE
		<input type="checkbox"/> M. NOT APPLICABLE

EPA FORM 207C-13/7-6



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
01 STATE 02 SITE NUMBER
ILD 9810 98411

HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~4,700 04 NARRATIVE DESCRIPTION

SEE GROUNDWATER DISCUSSION IN NARRATIVE
(Section 5.2)

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

SEE SURFACE WATER DISCUSSION IN NARRATIVE
(Section 5.3)

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~30,000 04 NARRATIVE DESCRIPTION

SEE AIR ROUTE DISCUSSION
IN NARRATIVE (Section 5.4)

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

SEE FIRE/EXPLOSION DISCUSSION IN NARRATIVE
(Section 5.5)

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~2,500 04 NARRATIVE DESCRIPTION

SEE DIRECT CONTACT DISCUSSION IN NARRATIVE
(Section 5.6)

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 6/19/87) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: ~4 04 NARRATIVE DESCRIPTION

ON SITE SOIL SAMPLES COLLECTED BY FIRM ON 6/19/87 SHOWED
LOW LEVELS OF TCC COMPOUNDS AND TAL ANALYTES. SEE TABLE 4.1 IN
NARRATIVE FOR COMPLETE ANALYTICAL RESULTS.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~4,700 04 NARRATIVE DESCRIPTION

SEE GROUNDWATER DISCUSSION IN NARRATIVE
(Section 5.2)

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: ~8 04 NARRATIVE DESCRIPTION

SEE DIRECT CONTACT DISCUSSION IN NARRATIVE
(Section 5.6)

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~30,000 04 NARRATIVE DESCRIPTION

THE ABOVE POPULATION FIGURE REPRESENTS THE APPROXIMATE
POPULATION RESIDING WITHIN A 4-MILE RADIUS OF THE SITE.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILV 981098411

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists BECAUSE of TCE compounds
AND TAR Analytes detected in on-site soil samples.

01 ☒ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include names of species)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Potential exists for fauna to come into contact
with exposed 'wheel' material.

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None documented or observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills, Pools, Standing Liquids, Leaking Drums)

03 POPULATION POTENTIALLY AFFECTED: ~30,000

02 ☒ OBSERVED (DATE: 6/17/89)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

'wheel' material that was used on-site is uncovered.
Additionally, the site is not fenced

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None observed or indicated in file information

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

A storm sewer was observed by EIT located at the
southwest corner of the Building that houses
Antique Autos.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None observed or indicated in file information

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None

III. TOTAL POPULATION POTENTIALLY AFFECTED: ~30,000

IV. COMMENTS

Located on the southwest side of the property is
a dry well. It appeared to be deep with only a piece of
heavy metal covering it. It could be a potential danger to children.

V. SOURCES OF INFORMATION (for specific references, e.g., state files, sample analysis, reports)

EIT SSI conducted 6/18/89
STATE AND FEDERAL file information



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER 981098411

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR	<u>201809 AAH</u>	<u>8/18/81</u>	<u>unknown</u>	
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPOC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input checked="" type="checkbox"/> I. OTHER (Specify) <u>DRYER</u>	<u>was on application number 81070077 but file information</u>			
<input type="checkbox"/> J. NONE	<u>did not indicate if it was ever issued.</u>			

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input checked="" type="checkbox"/> B. PILES	<u>unknown</u>	<u>unknown</u>	<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input checked="" type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input checked="" type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

SEE SECTION 2.3 (SITE HISTORY) IN NARRATIVE

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check only)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

File information that FIT GATHERED DID NOT INDICATE THE PRESENCE of any DIKING, LINERS, OR BARRIERS ON-SITE. Additionally, FIT DID NOT OBSERVE any of these ON-SITE DURING THE SSI.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

SITE IS NOT ENTIRELY FENCED AND PRIVATE HOMES ARE WITHIN 30 FEET OF THE SITE.

VI. SOURCES OF INFORMATION (City specific references, e.g. state files, sample analysis, reports)

FIT SSI CONDUCTED 6/17/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 0 781078411

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check all that apply)

SURFACE WELL
COMMUNITY A. ☐ B. ☒
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☐ B. ☐ C. ☐
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. ~ 3/4 (mi)
B. ON-SITE (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ~ 4700

03 DISTANCE TO NEAREST DRINKING WATER WELL ON-SITE (mi)

04 DEPTH TO GROUNDWATER
30 (ft)

05 DIRECTION OF GROUNDWATER FLOW
north

06 DEPTH TO AQUIFER
OF CONCERN
~ 60 (ft)

07 POTENTIAL YIELD
OF AQUIFER
UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER
☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

It appears that all domestic wells are finished in the glacial drift at depths ranging from 60-75 ft. One of two municipal wells in Rockton is also finished in this drift at 120 ft. The other well is finished in the St. Peter S.S. at 728 ft.

10 RECHARGE AREA

☒ YES
☐ NO

COMMENTS

through natural percolation within the permeable glacial drift

11 DISCHARGE AREA

☒ YES
☐ NO

COMMENTS

Potential discharge in lowland areas in Winnebago County (Berg 1984)

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

NA ☐ (mi)
☐ (mi)
☐ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE
A. ~ 2,500 B. ~ 3,000 C. ~ 4,700
NO. OF PERSONS NO. OF PERSONS NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

~ 30 ft.
(mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~ 1100

04 DISTANCE TO NEAREST OFF-SITE BUILDING

~ 30 ft.
(mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

The UR site is located within the Village of Rockton in a residential neighborhood. Most of the people living around the site are employed at small local factories or involved in agriculture.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL D 98008411

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-2} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-8} cm/sec)
☐ B. RELATIVELY IMPERMEABLE
($10^{-6} - 10^{-8}$ cm/sec)
☒ C. RELATIVELY PERMEABLE
($10^{-2} - 10^{-4}$ cm/sec)
☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

~240 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

AT LEAST 7 inches
(ft)

05 SOIL pH

5.6-7.8

06 NET PRECIPITATION

2 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.5 (in)

08 SLOPE

SITE SLOPE
~3 %

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

~3 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☒ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. _____ (mi)

B. 71 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

> 1 (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. ~30 (ft)

B. ~30 (ft)

C. ~100 (ft)

D. ~100 (ft)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE Appendix A

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EKE FET SSS CONDUCTED 6/19/94



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 0981098411

II SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	5	TCL compounds TAC Analytes	
SURFACE WATER		Gulf South Environmental CRL, Chicago, IL	on-File
WASTE		New Orleans, LA AND	
AIR		CRL, Chicago, IL	
RUNOFF			
SPILL			
SOIL	7	TCL compounds TAC Analytes	on-File
VEGETATION		Environmental Mgmt. Services Columbia Analy. Ser.	
OTHER		Camarillo, CA. Longview, WA	

III FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU 101	
DRAGER TUBES (HCU)	
RADIATION MINI ALERT	
Oxygen & Explosimeter	
combination meter	
No on-site readings above background	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Ecology & Environment, Inc. <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Ecology & Environment, Inc. - Chicago

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, records)

EFE FIT SITE inspection conducted 6/14/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ICD 981098411

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME LAVERNE COLLINS		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1324 WATB AVE.		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Rockton		06 STATE IL		07 ZIP CODE 61073		12 CITY	
01 NAME Ray, St. John		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) OWNERS 1 ON-SITE BUILDING		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY Beloit		06 STATE WI		07 ZIP CODE		12 CITY	
01 NAME NA		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
01 NAME NA		02 D+B NUMBER		08 NAME NA		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE		07 ZIP CODE		12 CITY	
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (if applicable; list most recent first)			
01 NAME ERNEST BROWN		02 D+B NUMBER		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) UNKNOWN		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY UNKNOWN		06 STATE		07 ZIP CODE		08 STATE	
01 NAME GIL SEMANS		02 D+B NUMBER		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) UNKNOWN		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY UNKNOWN		06 STATE		07 ZIP CODE		08 STATE	
01 NAME Alco Standard Company		02 D+B NUMBER		01 NAME NA		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) UNKNOWN		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY UNKNOWN		06 STATE PA		07 ZIP CODE		08 STATE	
V. SOURCES OF INFORMATION (List specific references, e.g., owner files, company analysis, reports)							
EPA FT 501 interview with site representative 6/19/89							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILO 981098411

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME JACK JOE
DICK WINDSOR / Crawford Young

03 STREET ADDRESS (P.O. Box, RFD #, etc.) UNKNOWN
04 SIC CODE

05 CITY Windsor
06 STATE
07 ZIP CODE

08 YEARS OF OPERATION RUNS PALLET - REPAIR SHOP
09 NAME OF OWNER CRAWFORD RUNS machine
CRAWFORD RUNS machine
CRAWFORD RUNS machine

OPERATOR'S PARENT COMPANY (if applicable)

10 NAME NA
11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE

14 CITY
15 STATE
16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME ERNEST BROWN
02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) UNKNOWN
04 SIC CODE

05 CITY UNKNOWN
06 STATE
07 ZIP CODE

08 YEARS OF OPERATION 1983-1984
09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

10 NAME
11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE

14 CITY
15 STATE
16 ZIP CODE

01 NAME Gil Gennaro
02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) UNKNOWN
04 SIC CODE

05 CITY UNKNOWN
06 STATE
07 ZIP CODE

08 YEARS OF OPERATION ? - 1983
09 NAME OF OWNER DURING THIS PERIOD

10 NAME
11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE

14 CITY
15 STATE
16 ZIP CODE

01 NAME
02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)
04 SIC CODE

05 CITY
06 STATE
07 ZIP CODE

08 YEARS OF OPERATION
09 NAME OF OWNER DURING THIS PERIOD

10 NAME
11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)
13 SIC CODE

14 CITY
15 STATE
16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., site files, sample analysis, reports)

E&E FIT SSI interview conducted 6/19/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

ICD 981098411

II. ON-SITE GENERATOR

01 NAME UNKNOWN	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME UNKNOWN	02 D+B NUMBER	01 NAME UNKNOWN	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME UNKNOWN	02 D+B NUMBER	01 NAME UNKNOWN	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME UNKNOWN	02 D+B NUMBER	01 NAME UNKNOWN	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME UNKNOWN	02 D+B NUMBER	01 NAME UNKNOWN	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA EIT SSE interview conducted 6/19/89



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 981098411

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> E. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input checked="" type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE UNKNOWN	03 AGENCY UNKNOWN
Site representative Collins indicated that an unknown amount of oil contaminated soil was removed		
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> O. EMERGENCY DIKING SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
NA		
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY
NA		



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION

01 STATE 02 SITE NUMBER
IL0 981089411

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

NA

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

NA

III SOURCES OF INFORMATION (City specific references, e.g., State Rec. Sample Analysis, Reports)

FILE GATHERED FILE INFORMATION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I IDENTIFICATION

01 STATE	02 SITE NUMBER
IL0	9816 98111

II ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

SEE SECTION 2.3 (SITE HISTORY) IN NARRATIVE

III SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

FILE INFORMATION

APPENDIX C

FIT SITE PHOTOGRAPHS

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Unified Recovery

PAGE 14 OF 14

U.S. EPA ID: ILD

TDD: FOS-8811-004

PAN: F1L04455A

DATE: 6/20/89

TIME: 1335

DIRECTION OF
PHOTOGRAPH:
North

WEATHER
CONDITIONS:
clear, sunny
~80°F

PHOTOGRAPHED BY:
Tim MAYERS

SAMPLE ID
(if applicable):
RWS



DESCRIPTION: close-up photo of RWS sample location

DATE: 6/20/89

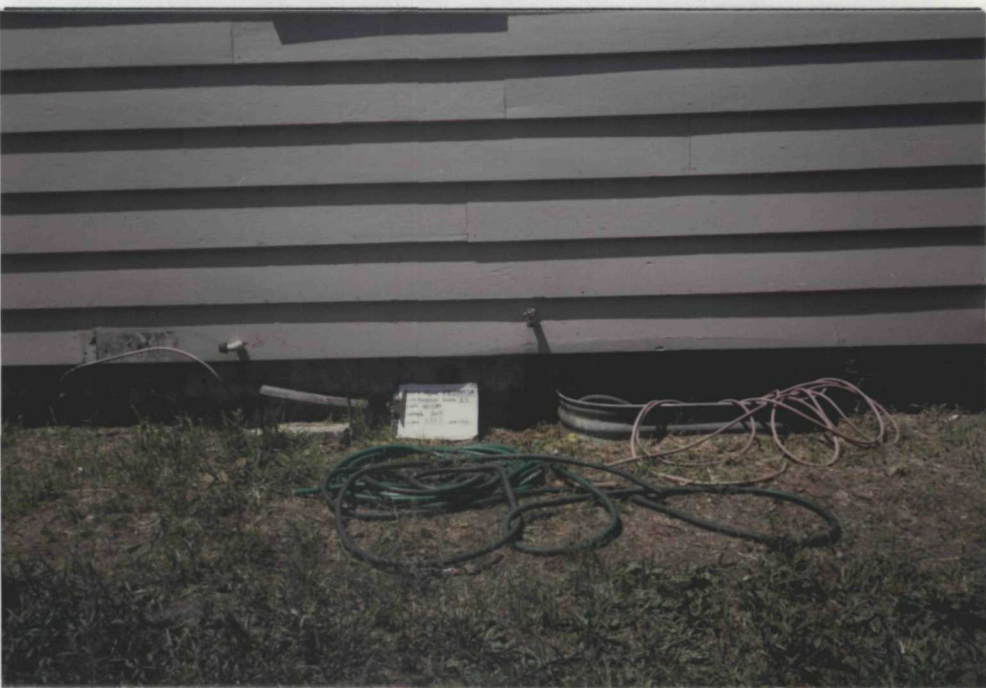
TIME: 1335

DIRECTION OF
PHOTOGRAPH:
North

WEATHER
CONDITIONS:
clear, sunny
~80°F

PHOTOGRAPHED BY:
Tim MAYERS

SAMPLE ID
(if applicable):
RWS



DESCRIPTION: perspective photo of RWS sample location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United Recovery

PAGE 13 OF 14

U.S. EPA ID: ILD 981098411

TDD: FOS-8811-004

PAN: F1204455A

DATE: 6/20/89

TIME: 1200

DIRECTION OF
PHOTOGRAPH:

Southwest

WEATHER
CONDITIONS:

Clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim Mayers

SAMPLE ID
(if applicable):

RW4



DESCRIPTION: photo is close-up of RW4 sample location.

DATE: 6/20/89

TIME: 1200

DIRECTION OF
PHOTOGRAPH:

Southwest

WEATHER
CONDITIONS:

Clear, sunny

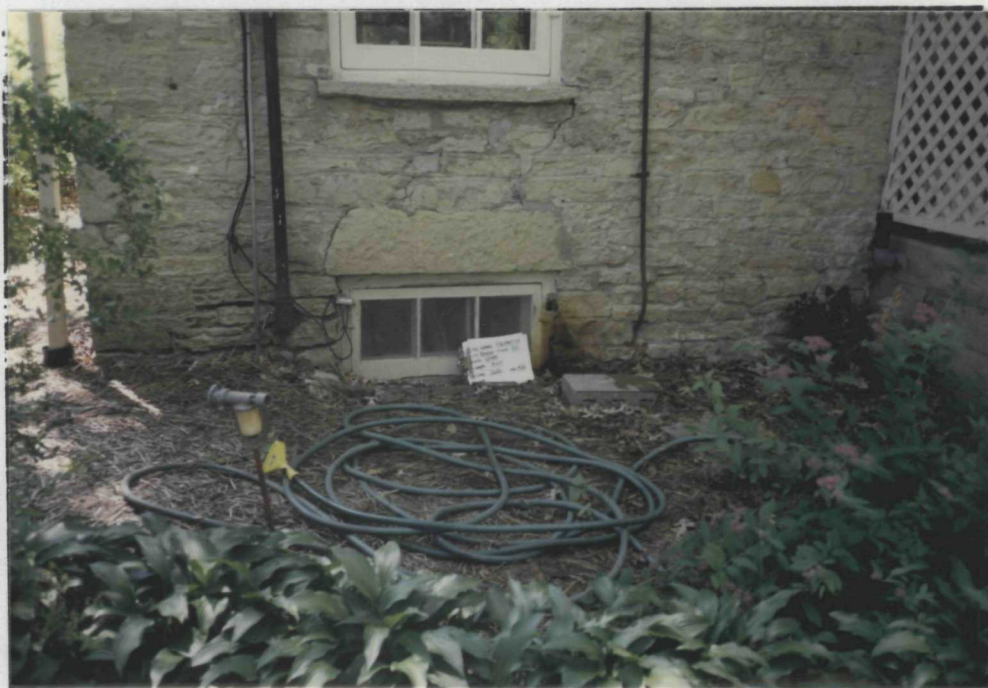
~80°F

PHOTOGRAPHED BY:

Tim Mayers

SAMPLE ID
(if applicable):

RW4



DESCRIPTION: perspective photo of RW4 sample location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United Recovery

PAGE 12 OF 14

U.S. EPA ID: ILD981098411TDD: FOS-8811-004PAN: F1L04455ADATE: 6/20/89TIME: 1115DIRECTION OF
PHOTOGRAPH:northwestWEATHER
CONDITIONS:clear, sunny~80°F

PHOTOGRAPHED BY:

Tim MAYERSSAMPLE ID
(if applicable):RW3DESCRIPTION: close-up photo of RW3 sample location.DATE: 6/20/89TIME: 1115DIRECTION OF
PHOTOGRAPH:northwestWEATHER
CONDITIONS:clear, sunny~80°F

PHOTOGRAPHED BY:

Tim MAYERSSAMPLE ID
(if applicable):RW3DESCRIPTION: perspective photo of RW3 sample location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Unified Recovery

PAGE 11 OF 14

U.S. EPA ID: ILD981098411

TDD: FOS-8811-004

PAN: F1L04455A

DATE: 6/20/89

TIME: 1045

DIRECTION OF
PHOTOGRAPH:

NORTHEAST

WEATHER
CONDITIONS:

CLEAR, SUNNY

~80°F

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID
(if applicable):

RWZ + MSD



DESCRIPTION: close-up photo of RWZ + MSD sample location

DATE: 6/20/89

TIME: 1045

DIRECTION OF
PHOTOGRAPH:

NORTHEAST

WEATHER
CONDITIONS:

CLEAR, SUNNY

~80°F

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID
(if applicable):

RWZ + MSD



DESCRIPTION: perspective photo of RWZ + MSD sample location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Unified Recovery

PAGE 10 OF 14

U.S. EPA ID: ILD981098411

TDD: F05-8811-004

PAN: F1204455A

DATE: 6/20/89

TIME: 1000

DIRECTION OF PHOTOGRAPH:

NORTHEAST

WEATHER CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim Mayers

SAMPLE ID (if applicable):

Rwl + Dup.



DESCRIPTION: photo shows metal box that houses
faucet from which Rwl + Dup. was collected. on site
close-up photo

DATE: 6/20/89

TIME: 1000

DIRECTION OF PHOTOGRAPH:

NORTHEAST

WEATHER CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim Mayers

SAMPLE ID (if applicable):

Rwl + Dup.



DESCRIPTION: Perspective of Rwl + Dup. sample location

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United RecoveryPAGE 9 OF 14U.S. EPA ID: ILD981098411TDD: FOS-8811-004PAN: F1L84455ADATE: 6/19/89TIME: 1535DIRECTION OF
PHOTOGRAPH:Southwest

WEATHER

CONDITIONS:

clear sunny~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID

(if applicable):

NA

DESCRIPTION:

photo shows BACK of site looking
southwestDATE: 6/19/89TIME: 1535DIRECTION OF
PHOTOGRAPH:South/Southwest

WEATHER

CONDITIONS:

clear, sunny~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID

(if applicable):

NA

DESCRIPTION:

photo shows BACK of site looking south/
southwest.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United Recovery

PAGE 8 OF 14

U.S. EPA ID: ILD981098411

TDD: F05-8811-004

PAN: F104455A

DATE: 6/19/89

TIME: 1530

DIRECTION OF
PHOTOGRAPH:

Northwest

WEATHER
CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID
(if applicable):

NA

DESCRIPTION:

photo shows part of site. Photo taken from
Dingman St. Main Building in view is currently a
welding shop.



DATE: 6/19/89

TIME: 1530

DIRECTION OF
PHOTOGRAPH:

Northwest

WEATHER
CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID
(if applicable):

NA

DESCRIPTION:

photo shows part of site. Photo shows Building
on northeast corner of site that currently antique
cars.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: UNITED RECOVERY

PAGE 7 OF 14

U.S. EPA ID: ILD981098411

TDD: FOS-8811-004

PAN: F104455A

DATE: 6/19/89

TIME: 1520

DIRECTION OF
PHOTOGRAPH:

NORTHEAST

WEATHER

CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID

(if applicable):

S7



DESCRIPTION: close-up photo of S7 sample location, potential
BACKGROUND

DATE: 6/19/89

TIME: 1520

DIRECTION OF
PHOTOGRAPH:

NORTHEAST

WEATHER

CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID

(if applicable):

S7



DESCRIPTION: perspective photo of S7 sample location, potential
BACKGROUND

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: UNITED RECOVERY

PAGE 6 OF 14

U.S. EPA ID: ILD981098411

TDD: FOS-8811-004

PAN: F104455A

DATE: 6/19/89

TIME: 1510

DIRECTION OF
PHOTOGRAPH:
northwest

WEATHER
CONDITIONS:
clear, sunny
~80°F

PHOTOGRAPHED BY:
TIM MAYERS

SAMPLE ID
(if applicable):
SG



DESCRIPTION: close-up of SG sample location.

DATE: 6/19/89

TIME: 1510

DIRECTION OF
PHOTOGRAPH:
northwest

WEATHER
CONDITIONS:
clear, sunny
~80°F

PHOTOGRAPHED BY:
TIM MAYERS

SAMPLE ID
(if applicable):
SG



DESCRIPTION: perspective photo of SG sample location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United Recovery

PAGE 5 OF 14

U.S. EPA ID: ILD981098411

TDD: F05-8811-004

PAN: F104455A

DATE: 6/19/89

TIME: 1440

DIRECTION OF
PHOTOGRAPH:

NORTHWEST

WEATHER
CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID
(if applicable):

SS



DESCRIPTION: close-up photo of SS sample location.

DATE: 6/19/89

TIME: 1440

DIRECTION OF
PHOTOGRAPH:

NORTHWEST

WEATHER
CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID
(if applicable):

SS



DESCRIPTION: perspective photo of SS sample location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United Recovery

PAGE 4 OF 14

U.S. EPA ID: ILD981098411

TDD: F05-8811-004

PAN: F104455A

DATE: 6/19/89

TIME: 1430

DIRECTION OF
PHOTOGRAPH:

NORTHEAST

WEATHER

CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID

(if applicable):

54



DESCRIPTION:

close-up photo of 54 sample location.

DATE: 6/19/89

TIME: 1430

DIRECTION OF
PHOTOGRAPH:

SOUTHEAST

WEATHER

CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID

(if applicable):

54



DESCRIPTION:

perspective photo of 54 sample location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: UNITED RECOVERY

PAGE 3 OF 14

U.S. EPA ID: ILD981098411TDD: FOS-8811-004PAN: F104455ADATE: 6/19/89TIME: 1400DIRECTION OF
PHOTOGRAPH:SOUTHEAST

WEATHER

CONDITIONS:

CLEAR, SUNNY~80°F

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID

(if applicable):

S3

DESCRIPTION:

CLOSE-UP PHOTO OF S3 SAMPLE LOCATION.DATE: 6/19/89TIME: 1400DIRECTION OF
PHOTOGRAPH:SOUTHWEST

WEATHER

CONDITIONS:

CLEAR, SUNNY~80°F

PHOTOGRAPHED BY:

TIM MAYERS

SAMPLE ID

(if applicable):

S3

DESCRIPTION:

PERSPECTIVE PHOTO OF S3 SAMPLE LOCATION.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: United RecoveryPAGE 1 OF 14U.S. EPA ID: ILD981098411TDD: F05-8811-004PAN: F104455ADATE: 6/19/89TIME: 1400DIRECTION OF
PHOTOGRAPH:NORTHEASTWEATHER
CONDITIONS:CLEAR, SUNNY~80°F

PHOTOGRAPHED BY:

TIM MAYERSSAMPLE ID
(if applicable):S1DESCRIPTION: close-up photo of S1 sample location.DATE: 6/19/89TIME: 1400DIRECTION OF
PHOTOGRAPH:NORTHWESTWEATHER
CONDITIONS:CLEAR, SUNNY~80°F

PHOTOGRAPHED BY:

TIM MAYERSSAMPLE ID
(if applicable):S1DESCRIPTION: PERSPECTIVE photo of S1 sample location.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: UNITED RECOVERY

PAGE 2 OF 14

U.S. EPA ID: ILD981098411

TDD: F05-8811-004

PAN: F104455A

DATE: 6/19/89

TIME: 1400

DIRECTION OF
PHOTOGRAPH:

northwest

WEATHER
CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID
(if applicable):

S2



DESCRIPTION: close-up photo of S2 sample location.

DATE: 6/19/89

TIME: 1400

DIRECTION OF
PHOTOGRAPH:

northwest

WEATHER
CONDITIONS:

clear, sunny

~80°F

PHOTOGRAPHED BY:

Tim MAYERS

SAMPLE ID
(if applicable):

S2



DESCRIPTION: perspective photo of S2 sample location.

APPENDIX D

U.S. EPA TARGET COMPOUND LIST AND
TARGET ANALYTE LIST
QUANTITATION/DETECTION LIMITS

ADDENDUM A

**ROUTINE ANALYTICAL SERVICES
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS**

Contract Laboratory Program
Target Compound List
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (MEK)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Tolene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330

Table A
Contract Laboratory Program
Target Compound List
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A
Contract Laboratory Program
Target Compound List
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A (Cont.)

CONTRACT LABORATORY PROGRAM
 TARGET ANALYTE LIST (TAL)
 INORGANIC DETECTION LIMITS

Compound	Procedure	Detection Limits	
		Water (µg/L)	Soil Sediment Sludge (mg/kg)
aluminum	ICP	200	40
antimony	furnace	60	2.4
arsenic	furnace	10	2
barium	ICP	200	40
beryllium	ICP	5	1
cadmium	ICP	5	1
calcium	ICP	5,000	1,000
chromium	ICP	10	2
cobalt	ICP	50	10
copper	ICP	25	5
iron	ICP	100	20
lead	furnace	5	1
magnesium	ICP	5,000	1,000
manganese	ICP	15	3
mercury	cold vapor	0.2	0.008
nickel	ICP	40	8
potassium	ICP	5,000	1,000
selenium	furnace	5	1
silver	ICP	10	2
sodium	ICP	5,000	1,000
thallium	furnace	10	2
tin	ICP	40	8
vanadium	ICP	50	10
zinc	ICP	20	4
cyanide	color	10	2

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ADDENDUM B

CENTRAL REGIONAL LABORATORY
DETECTION LIMITS

TABLE B
CENTRAL REGIONAL LABORATORY
VOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	10
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	10
Dibromochloromethane	124-48-1	1.5
1,1-dichloroethane	75-34-3	1.5
1,2-dichloroethane	107-06-2	1.5
1,1-dichloroethene	75-35-4	1.5
Total-1,2-dichloroethene	540-59-0	1.5
1,2-dichloropropane	78-87-5	1.5
cis-1,3-dichloropropene	10061-01-5	2
trans-1,3-dichloropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Methylene chloride*	75-09-2	1
1,1,2,2-tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene*	108-88-3	1.5
1,1,1-trichloroethane	71-55-6	1.5
1,1,2-trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	10
Acrolein	107-02-8	100
Acetone*	67-64-1	75
Acrylonitrile	107-13-1	50
Carbon disulfide	75-15-0	3
2-butanone	78-93-3	(50)
Vinyl acetate	108-05-4	15
4-Methyl-2-Pentanone	108-10-1	(3)
2-Hexanone	519-78-6	(50)
Styrene	100-42-5	1
m-xylene	108-38-3	2
o-xylene**	95-47-6	
p-xylene**	106-42-3	2.5**
Total Xylene	1330-02-7	

* Common Laboratory Solvents.

Blank Limit is 5X Method Detection Limit.

() Values in parentheses are estimates.

Actual values are being determined at this time.

** The o-xylene and p-xylene are reported as a total of the two.

TABLE B (cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
Aniline	62-53-3	1.5 ug/L	3 ug/L
Bis(2-chloroethyl)ether	111-44-4	1.5	3
Phenol	108-95-2	2	4
2-Chlorophenol	95-57-8	2	4
1,3-Dichlorobenzene	541-73-1	2	4
1,4-Dichlorobenzene	106-46-7	2	4
1,2-Dichlorobenzene	95-50-1	2.5	5
Benzyl alcohol	100-51-6	2	4
Bis(2-chloroisopropyl) ether	39638-32-9	2.5	5
2-Methylphenol	95-48-7	1	2
Hexachloroethane	67-72-1	2	4
N-nitrosodipropylamine	621-64-7	1.5	3
Nitrobenzene	98-95-3	2.5	5
4-Methylphenol	106-44-5	1	2
Isophorone	78-59-1	2.5	5
2-Nitrophenol	88-75-5	2	4
2,4-Dimethylphenol	105-67-9	2	4
Bis(2-chloroethoxy)methane	111-91-1	2.5	5
2,4-Dichlorophenol	120-83-2	2	4
1,2,4-Trichlorobenzene	120-82-1	2	4
Naphthalene	91-20-3	2	4
4-Chloroaniline	106-47-8	2	4
Hexachlorobutadiene	87-68-3	2.5	5
Benzoic acid	65-85-0	(30)	(60)
2-Methylnapthalene	91-57-6	2	4
4-Chloro-3-methylphenol	59-50-7	1.5	3
Hexachlorocyclopentadiene	77-47-4	2	4
2,4,6-Trichlorophenol	88-06-2	1.5	3
2,4,5-Trichlorophenol	95-95-4	1.5	3
2-Chloronapthalene	91-58-7	1.5	3
Acenaphthylene	208-96-8	1.5	3
Dimethyl phthalate	131-11-3	1.5	3
2,6-Dinitrotoluene	606-20-2	1	2
Acenaphthene	83-32-9	1.5	3
3-Nitroaniline	99-09-2	2.5	5
Dibenzofuran	132-64-9	1	2
2,4-Dinitrophenol	51-28-5	(15)	(30)
2,4-Dinitrotoluene	121-14-2	1	2
cont.			

TABLE B (Cont.)
CRL
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK (a) LIMIT
Fluorene	86-73-7	1 ug/L	2 ug/L
4-Nitrophenol	100-02-7	1.5	3
4-Chlorophenyl phenyl ether	7005-72-3	1	2
Diethylphthalate	84-66-2	1	2
4,6-dinitro-2-methylphenol	534-52-1	(15)	(30)
1,2-Diphenylhydrazine	122-66-7	1	2
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	3
4-Nitroaniline	100-01-6	3	6
4-Bromophenyl-phenylether	101-55-3	1.5	3
Hexachlorobenzene	118-74-1	1.5	3
Pentachlorophenol	87-86-5	2	4
Phenanthrene	85-01-8	1	2
Anthracene	120-12-7	2.5	5
Di-n-butylphthalate	84-74-2	2	4
Fluoranthene	206-44-0	1.5	3
Pyrene	129-00-0	1.5	3
Butylbenzylphthalate	85-68-7	3.5	7
Chrysene **	218-01-9		
Benzo(a)anthracene **	56-55-3	1.5	3
bis(2-Ethylhexyl)phthalate	117-81-7	1	2
Di-n-octyl phthalate	117-84-0	1.5	3
Benzo(b)fluoranthene ***	205-99-2		
Benzo(k)fluoranthene ***	207-08-9	1.5	3
Benzo(a)pyrene	50-32-8	2	4
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	7
Dibenzo(a,h)anthracene	53-70-3	2.5	5
Benzo(g,h,i)perylene	191-24-2	4	8
2-Nitroaniline	88-74-4	1	2

* These two parameters are reported as a total.

** These two parameters are reported as a total.

*** These two parameters are reported as a total.

(a) If the blank limit is exceeded, the sample is reextracted and rerun.

() Values in parentheses are estimates.

The actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE B (Cont.)
CRL
PESTICIDE AND PCB DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aldrin	309-00-2	0.005 ug/L
alpha BHC	319-84-6	(0.010)
beta BHC	319-85-7	(0.005)
delta BHC	319-86-8	(0.005)
gama BHC (Lindane)	58-89-9	0.005
Chlordane	57-74-8	(0.020)
4,4'-DDD	72-54-8	(0.020)
4,4'-DDE	72-55-9	(0.005)
4,4'-DDT	50-29-3	0.020
Dieldrin	60-57-1	0.010
Endosulfan I	959-98-8	0.010
Endosulfan II	33213-65-9	0.010
Endosulfan sulfate	1031-07-8	(0.10)
Endrin	72-20-8	0.010
Endrin aldehyde	7421-93-4	(0.030)
Endrin ketone	53494-70-5	(0.030)
Heptachlor	76-44-8	0.030
Heptachlor epoxide	1024-57-3	0.005
4,4'-Methoxychlor	72-43-5	0.020
Toxaphene	8001-35-2	(0.25)
PCB-1242	53469-21-9	(0.10)
PCB-1248	12672-29-6	(0.10)
PCB-1254	11097-69-1	(0.10)
PCB-1260	11096-82-5	(0.10)

() Values in parentheses are estimates.
Actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE B (Cont.)
CRL
INORGANIC DETECTION LIMITS

COMPOUND	PROCEDURE	DETECTION LIMITS	RANGE	UNITS
Aluminum	ICP	100	80 to 1,000,000	ug/L
Antimony	Furnace	2	2 to 30	ug/L
Arsenic	Furnace	2	2 to 30	ug/L
Barium	ICP	50	6 to 20,000	ug/L
Beryllium	ICP	5	1 to 20,000	ug/L
Boron	ICP	80	80 to 20,000	ug/L
Cadmium	ICP	10	10 to 20,000	ug/L
Cadmium	Furnace	0.2	0.2 to 2	ug/L
calcium	ICP	1000	0.5 to 1,000	mg/L
Chromium	ICP	10	8 to 20,000	ug/L
Cobalt	ICP	10	6 to 20,000	ug/L
Copper	ICP	10	6 to 20,000	ug/L
iron	ICP	100	80 to 1,000,000	ug/L
Lead	Furnace	2	2 to 30	ug/L
Lead	ICP	70	70 to 20,000	ug/L
Lithium	ICP	10	10 to 20,000	ug/L
Magnesium	ICP	1000	0.1 to 200	mg/L
Maganese	ICP	10	5 to 20,000	ug/L
Mercury	Cold vapor	0.2	0.1 to 2	ug/L
Molybdenum	ICP	15	15 to 20,000	ug/L
Nickel	ICP	20	15 to 20,000	ug/L
Potassium	ICP	2000	5 to 1,000	mg/L
Selenium	Furnace	2	2 to 30	ug/L
Silver	ICP	5	6 to 10,000	ug/L
Sodium	ICP	1000	1 to 1,000	mg/L
Strontium	ICP	10	10 to 20,000	ug/L
Sulfide	Titration	1	< 1	mg/L
Sulfide	Color	0.05	< 1	mg/L
Thallium	Furnace	2	2 to 30	ug/L
Titanium	ICP	25	25 to 20,000	ug/L
Tin	ICP	40	40 to 20,000	ug/L
Vanadium	ICP	10	5 to 20,000	ug/L
Yttrium	ICP	5	5 to 20,000	ug/L
Zinc	ICP	20	40 to 1,000,000	ug/L
Cyanide	AA	5.0	8 to 200	ug/L

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services for related CAS #.

**TABLE C (Cont.)
SAS DRINKING WATER
INORGANIC DETECTION LIMITS**

PARAMETER	PROCEDURE	DETECTION LIMIT
Aluminum	ICP	100
Antimony	GFAA	5
Arsenic	GFAA	5
Barium	ICP	50
Beryllium	ICP	5
Cadmium	GFAA	0.5
Calcium	ICP	1000
Chromium	ICP	10
Cobalt	ICP	10
Copper	ICP	10
Iron	ICP	100
Lead	GFAA	2
Magnesium	ICP	1000
Manganese	ICP	10
Mercury	Cold Vapor	0.2
Nickel	ICP	20
Potassium	ICP	2000
Selenium	GFAA	2
Silver	ICP	5
Sodium	ICP	1000
Thallium	GFAA	2
Tin	ICP	40
Vanadium	ICP	10
Zinc	ICP	20
Cyanide	Colorimetric	10

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See inorganic Routine Analytical Services (RAS) for related CAS #.

APPENDIX E

WELL LOGS OF THE AREA OF THE SITE

INSTRUCTIONS TO DRLERS

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. in. Depth ft.
c. Drilled ☒ Finished in Drift ☒ In Rock ☐
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
NONE		

2. Distance to Nearest:

Building 10 Ft. Seepage Tile Field 100
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron)
Septic Tank 50 Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes ☒ No ☐4. Date well completed 7-5-775. Permanent Pump Installed? Yes ☒ Date 7-23-77 No ☐Manufacturer SA-LITE Type SUB Location WELLCapacity 20 gpm. Depth of Setting 70 Ft.6. Well Top Sealed? Yes ☒ No ☐ Type WELLS CAP7. Pitless Adapter Installed? Yes ☒ No ☐Manufacturer WELLS Model Number WX 6-1 1/4How attached to casing? BOLT ON8. Well Disinfected? Yes ☒ No ☐9. Pump and Equipment Disinfected? Yes ☒ No ☐10. Pressure Tank Size 220 gal. Type GALLLocation IN BUILDING11. Water Sample Submitted? Yes ☒ No ☐REMARKS: Water tested by Winn Co. Health Dept.WINN CO PERMIT # 163210. Property owner ROCKTON TOWNSHIP Well No. Address BLACK HAWK BLVD ROCKTON, ILLDriller ED GREENFIELD License No. 92-58211. Permit No. 59390 Date 4-26-7712. Water from SAND 13. County WINNEBAGOFormation SAND at depth 70 to 82 ft.14. Screen: Diam. 6 in. Sec. 13 1/4Length: 3 ft. Slot 15 Twp. 46NRge. 1EElev.

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>BLACK 18.97"</u>	<u>0</u>	<u>80</u>
<u>6</u>	<u>STAINLESS WEL SCREEN</u>	<u>80</u>	<u>82</u>

SHOW
LOCATION IN
SECTION PLAT
100W, 100N, SE 1/4,
NE NE 1/4
(TWP. 46-4, Range)

16. Size Hole below casing: in.17. Static level 50 ft. below casing top which is 1 ft.above ground level. Pumping level 60 ft. when pumping at 20gpm for 5 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>SAND + GRAVEL</u>	<u>70</u>	<u>70</u>
<u>SAND</u>	<u>12</u>	<u>82</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE 7-18-77

INSTRUCTIONS TO DRILLERS

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slob: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift ☒ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Drill mud	0	63

2. Distance to Nearest:

Building 15 Ft. Seepage Tile Field 100
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron)
Septic Tank 50 Barnyard
Leaching Pit Manure Pile

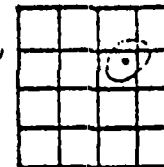
3. Well furnishes water for human consumption? Yes ☒ No ☐
4. Date well completed 6-27-78
5. Permanent Pump Installed? Yes ☒ Date 6-28-78 No ☐
Manufacturer Red Jacket Type sab Location well
Capacity 60 gpm. Depth of Setting 40 Ft.
6. Well Top Sealed? Yes ☒ No ☐ Type well cap
7. Pitless Adapter Installed? Yes ☒ No ☐
Manufacturer Wells Model Number Wx4x1
How attached to casing? Bolt on
8. Well Disinfected? Yes ☒ No ☐
9. Pump and Equipment Disinfected? Yes ☒ No ☐
10. Pressure Tank Size 42 gal. Type Wx 202
Location Reservoir
11. Water Sample Submitted? Yes ☒ No ☐

REMARKS:

Tested with Co Health Dept

Co permit # 2718

10. Property owner Glen Manson Well No. 1
Address 1200 Watts Ave Rockton
Driller Ed Greenfield License No. 92-582
11. Permit No. 75981 Date 6-22-78
12. Water from Sand 13. County Will
at depth 63 to 65 ft. Sec. 13
14. Screen: Diam. 4 in. Twp. 4EN
Length: 2 ft. Slot 20 Rge. 1E
Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	New BIK steel 11 lbs/ft	0	63
4	33 Johnson screen	63	65

SHOW LOCATION IN SECTION PLAT
Lot 1500, with
Ave, 100' W,
100' E, SW/4,
NE SW/4

16. Size Hole below casing: in.
17. Static level 23 ft. below casing top which is 1 ft. above ground level. Pumping level 30 ft. when pumping at 60 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
RIK dirt	3	3
sand + gravel	15	18
clay + gravel	32	50
sand	15	65

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE 6-27-78

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 6, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug _____. Bored _____. Hole Diam. _____ in. Depth _____ ft.
Curb material _____. Buried Slab: Yes _____ No _____
- b. Driven _____. Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled ☒. Finished in Drift ☒. In Rock _____.
Tubular _____. Gravel Packed _____.
- d. Grout: _____

(KIND)	FROM (Fl.)	TO (Fl.)
None		

2. Distance to Nearest:

Building 5 Ft. Seepage Tile Field 75
Cess Pool _____ Sewer (non Cast Iron) _____
Privy _____ Sewer (Cast Iron) _____
Septic Tank 50 Barnyard _____
Leaching Pit _____ Manure Pile _____

3. Is water from this well to be used for human consumption?
Yes ☒ No ☐

4. Date well completed April 14-72
5. Permanent Pump Installed? Yes X No
Manufacturer Red Top Type Subm.
Capacity 10 gpm. Depth of setting 50 ft.

6. Well Top Sealed? Yes X No
7. Pitless Adaptor Installed? Yes X No
8. Well Disinfected? Yes X No
9. Water Sample Submitted? Yes X No

REMARKS: Water sample reported
safe by Winnebago Co.
Health Dept.

10. Property owner La Vern Collins Well No. 1
Address 1300 W. 14th Ave.
Driller Ed Greenfield License No. 92-583
11. Permit No. 145-14193 Date April 7, 73
12. Water from surface 13. County Winnebago
Formation
at depth 61 to 65 ft. Sec. 13-27
14. Screen: Diam. _____ in. Twp. 46 N
Length: _____ ft. Slot _____ Rge. 1 E
Elev. _____

15. Casing and Liner Pipe

Diag. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	T.C. 11" Pl.	0	61
4	51" x 11" (S.S.)	61	63

SHOW
LOCATION IN
SECTION PLAT
SW NE NE

16. Size Hole below casing: _____ in.
17. Static level 35 ft. below casing top which is 1 ft. above ground level. Pumping level 41 ft. when pumping at 20 gpm for 8 hours.

[illegible]

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE May 7-72

White Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO OWNERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift ☒ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
None		

2. Distance to Nearest:

Building 10 Ft. Seepage Tile Field 100'
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast iron)
Septic Tank 50' Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes ☒ No ☐

4. Date well completed Feb 26 1977

5. Permanent Pump Installed? Yes ☒ Date Feb 28 1977 No ☐

Manufacturer Sta-Rite Type 5 HP Location In Well
Capacity 10 gpm. Depth of Setting 50 Ft.

6. Well Top Sealed? Yes ☒ No ☐ Type

7. Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer Wells Model Number 421 PWC

How attached to casing? Bolted

8. Well Disinfected? Yes ☒ No ☐

9. Pump and Equipment Disinfected? Yes ☒ No ☐

10. Pressure Tank Size 42 gal. Type X-Cell 202

Location In Crawl Space

11. Water Sample Submitted? Yes ☒ No ☐

REMARKS:

Water sample reported safe
by Winnebago Co. Health Dept.

Winnebago Co. permit #

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner RICHARD NIELSEN Well No. 1

Address 409 DINGMAN DR.

Driller ED GREENFIELD License No. 92-582

11. Permit No. 57131 Date FEB 25

12. Water from SAND Formation

at depth 58 to 60 ft.

14. Screen: Diam. 4 in.

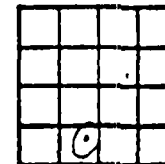
Length: 2 ft. Slot 15

Sec. 13

Twp. 66N

Rge. 1E

Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	BIK PE. 11"	0	58
4	S.S. SCREEN	58	60

SHOW
LOCATION IN
SECTION PLAT
100' N, 100' E SW 1/4
SE SW NE

16. Size Hole below casing: in.

17. Static level 30 ft. below casing top which is 1 ft.
above ground level. Pumping level 30 ft. when pumping at 10
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>SOIL</u>	<u>2</u>	<u>2</u>
<u>SAND + GRAVEL</u>	<u>48</u>	<u>44</u>
<u>SAND</u>	<u>48 16</u>	<u>60</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Ed Greenfield DATE March 2 1977

Residential Well 3

White Copy -
Ill. Dep. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug . Bored . Hole Diam. in. Depth ft.
Curb material . Burled Slab: Yes No
b. Driven . Drive Pipe Diam. in. Depth ft.
c. Drilled XX. Finished in Drift XX. In Rock 8
Tubular . Gravel Packed .
d. Grout:

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building 18 Ft. Seepage Tile Field IDPH 100
Cess Pool Sewer (non Cast Iron)
Privy Sewer (Cast Iron) 100
Septic Tank 75 Barnyard
'ing Pit Manure Pile

3. Well furnishes water for human consumption? Yes XX No

4. Date well completed December 14, 1981

5. Permanent Pump Installed? Yes XX Date 12-14-81 No

Manufacturer Red Jacket Type sub Location In well
Capacity 12 gpm. Depth of Setting 30 Ft.

6. Well Top Sealed? Yes XX No Type Martinson

7. Pitless Adapter Installed? Yes XX No

Manufacturer Martinson Model Number BP10
How attached to casing? Threaded nut

8. Well Disinfected? Yes XX No

9. Pump and Equipment Disinfected? Yes XX No

10. Pressure Tank Size 20 gal. Type Wall X-trial

Location In basement

11. Water Sample Submitted? Yes XXX No

REMARKS:

10. Property owner Bern Trull Well No.

Address Franklin Rd.

Driller Jack Bull License No. 92-606

11. Permit No. 102291 Date November 30, 1981

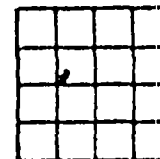
12. Water from XS sand, gravel 13. County Winnebago

at depth 30 to 48 ft. Sec. 13.6

14. Screen: Diam. 4 in. Twp. 46N

Length: 3 ft. Slot .015 Rge. 1E

Elev.



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	.258 Black	0	45

SHOW
LOCATION IN
SECTION PLAT
SW SE NW

16. Size Hole below casing: XXXX in.

17. Static level 30 ft. below casing top which is 10 inches (X)
above ground level. Pumping level 30 ft. when pumping at 12
gpm for 6 hours.

18.	FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
	black dirt	0	0
	sand and gravel	2	40

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jack Bull DATE 1-27-82